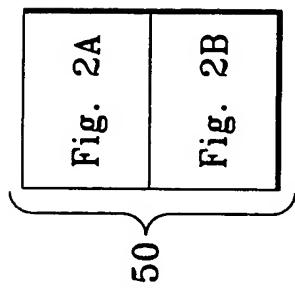


Fig. 1

Fig. 2  
Fig. 2A

EXEMPLARY DATAFIELDS ASSOCIATED WITH ANOMALY  
DEFINITIONS BASED ON CONTINUOUS PARAMETER DATA

GENERAL INFORMATION:

ANOMALY DEFINITION ID:

OBJECTIVE:

EXPLANATION:

MESSAGE TO BE GENERATED:

OWNER:

LOCOMOTIVE MODEL(S):  D8  D9  AC4400  AC6000

LOCOMOTIVE CONFIGURATION:

STATUS (DATE):  DEVELOPMENT IN REVIEW APPROVED  
 mm/dd/yy  mm/dd/yy  mm/dd/yy

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LOCOMOTIVE OPERATING CONDITIONS:	
LOCOMOTIVE SPEED:	<input type="checkbox"/> < MPH < <input type="checkbox"/> STATISTICS <input type="checkbox"/> TRENDS
ENGINE RPM:	<input type="checkbox"/> < MPH < <input type="checkbox"/>
GROSS HP:	<input type="checkbox"/> < MPH < <input type="checkbox"/>
NOTCH CALL:	<input type="checkbox"/>
MAX. NOTCH ALLOWED:	<input type="checkbox"/>
OPERATING MODE:	<input type="checkbox"/> DYNAMIC BRAKE <input type="checkbox"/> MOTORING <input type="checkbox"/> SELF-LOAD <input type="checkbox"/>

56

MONITORED PARAMETERS & SENSORS:					
NAME	NUMBER	LOWER LIMIT	UPPER LIMIT	STATISTICS	TRENDS
PARAM1	<input type="checkbox"/>	<input type="checkbox"/> < PARAM1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PARAM2	<input type="checkbox"/>	<input type="checkbox"/> < PARAM2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PARAM3	<input type="checkbox"/>	<input type="checkbox"/> < PARAM3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PARAM4	<input type="checkbox"/>	<input type="checkbox"/> < PARAM4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Fig. 2B

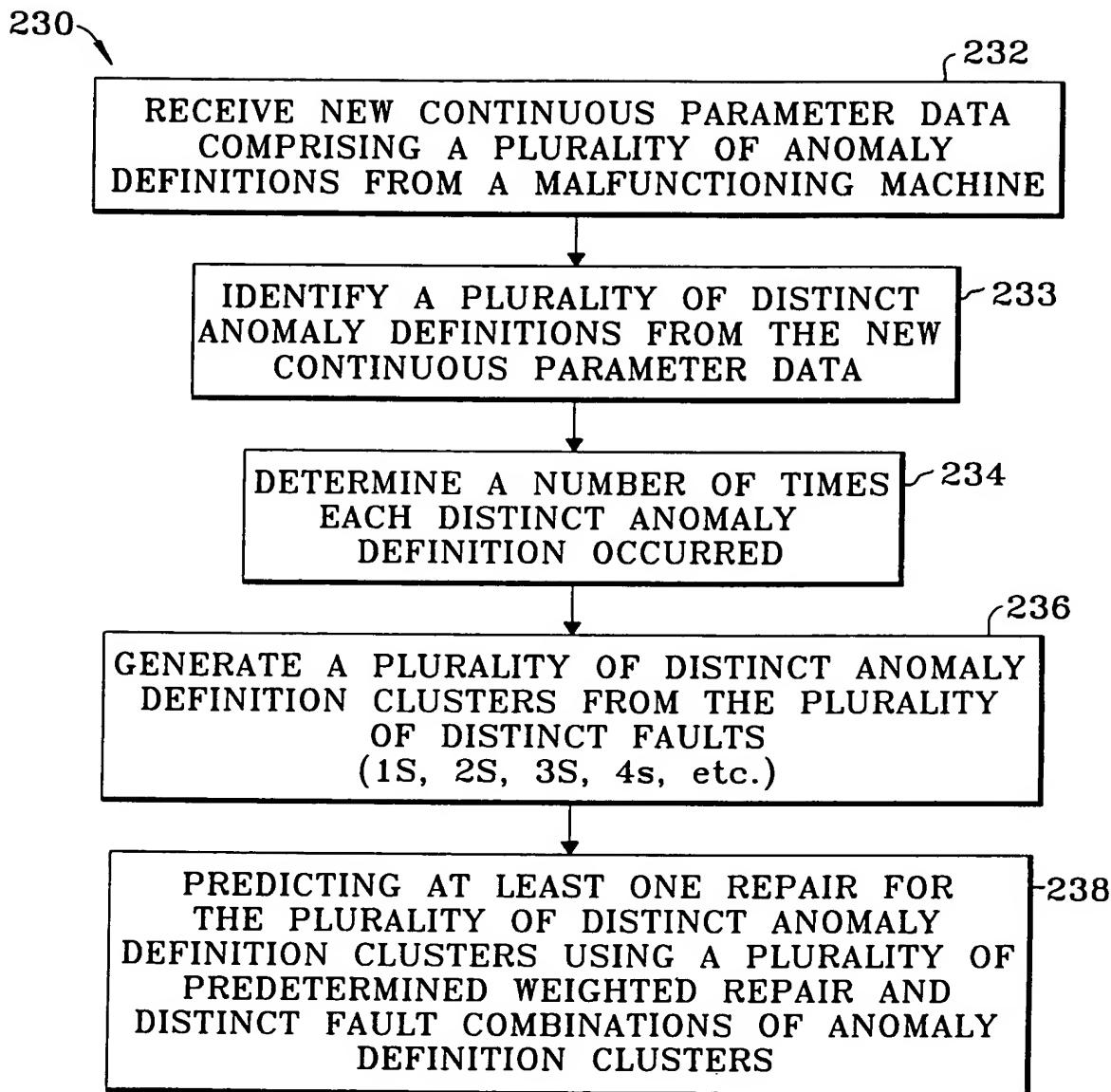


Fig. 3

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Fig. 4

7311	24
728F	2
76D5	1
720F	1

Fig. 5A

7311
728F
76D5
720F

Fig. 5B

76D5	7311
76D5	728F
76D5	720F
7311	728F
7311	720F
728F	720F

Fig. 5C

76D5	7311	728F
76D5	7311	720F
76D5	728F	720F
7311	728F	720F

Fig. 5D

76D5	7311	728F	720F
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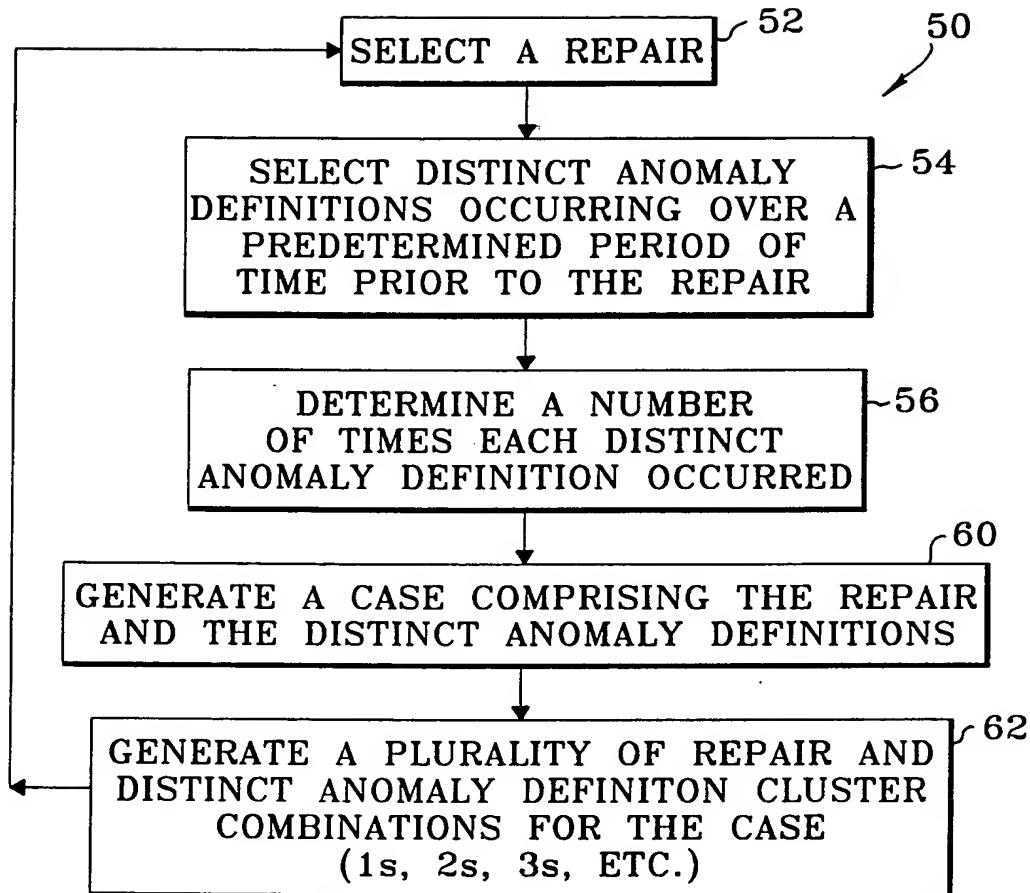


Fig. 6

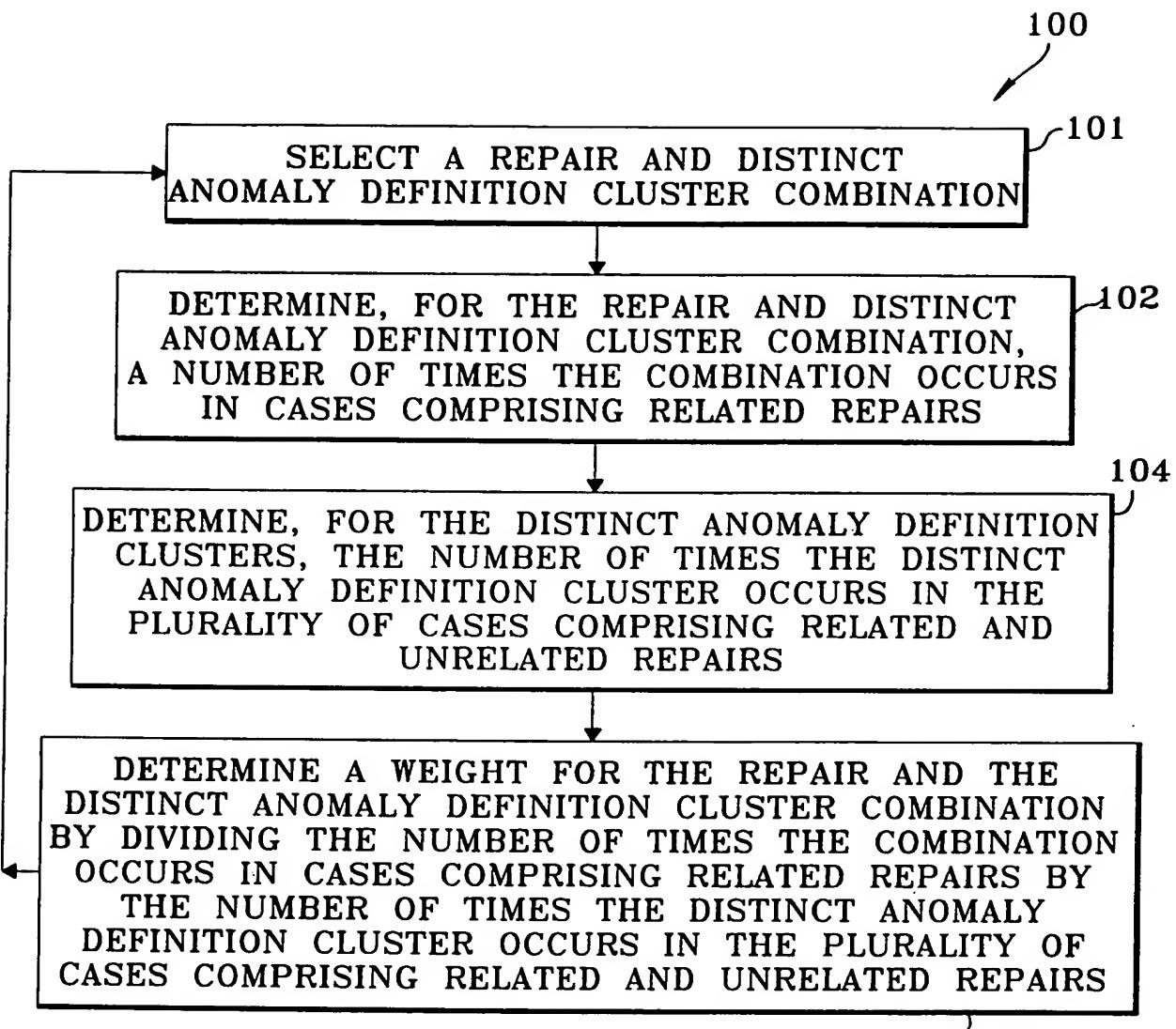


Fig. 7

250

252	253	254	253	255
ENTERED 1777 WITH 0.850 BASED ON 1777	7311	728F	720F	
ENTERED 1766 WITH 0.850 BASED ON 1766	7311	728F	720F	
ENTERED 1715 WITH 0.364 BASED ON 1715	76D5	7311		
ENTERED 1677 WITH 0.300 BASED ON 1677	7311	720F		
STORING 1777 WITH 0.300 BASED ON 1777	7311	720F		
STORING 1766 WITH 0.300 BASED ON 1766	7311	720F		
STORING 1777 WITH 0.300 BASED ON 1777	7311	728F		
STORING 1677 WITH 0.300 BASED ON 1677	7311	728F		
STORING 1766 WITH 0.300 BASED ON 1766	7311	728F		
ENTERED 1745 WITH 0.280 BASED ON 1745	76D5	728F	720F	
ENTERED 2323 WITH 0.273 BASED ON 2323	76D5	7311		
STORING 1677 WITH 0.273 BASED ON 1677	76D5	7311		
STORING 1715 WITH 0.211 BASED ON 1715	7311			
STORING 1745 WITH 0.200 BASED ON 1745	76D5	728F		
STORING 1745 WITH 0.184 BASED ON 1745	76D5	720F		
STORING 2323 WITH 0.160 BASED ON 2323	76D5			
STORING 1677 WITH 0.158 BASED ON 1677	7311			
STORING 1777 WITH 0.158 BASED ON 1777	7311			
STORING 1766 WITH 0.158 BASED ON 1766	7311			
STORING 2323 WITH 0.158 BASED ON 2323	7311			
STORING 1745 WITH 0.148 BASED ON 1745	728F	720F		
ENTERED 1869 WITH 0.143 BASED ON 1869	7311	728F	720F	
STORING 1745 WITH 0.130 BASED ON 1745	728F			
ENTERED 2142 WITH 0.130 BASED ON 2142	728F	720F		
STORING 1869 WITH 0.120 BASED ON 1869	76D5	728F	720F	
ENTERED 1814 WITH 0.105 BASED ON 1814	7311			
STORING 2142 WITH 0.103 BASED ON 2142	720F			
STORING 2142 WITH 0.101 BASED ON 2142	728F			

260

NUMBER OF DISTINCT ANOMALY DEFINITION  
IN CURRENT CASE IS: 4

1766- EFI	MATCHES 0.850
1777- PRESSURE PUMP	MATCHES 0.850
1677- TRACTION PROBLEM	MATCHES 1.031 CASES:32
1745- LOCOMOTIVE SOFTWARE PROBLEMS	MATCHES 0.943 CASES:39
2323- ENGINE OVER HEATED	MATCHES 0.591 CASES:71

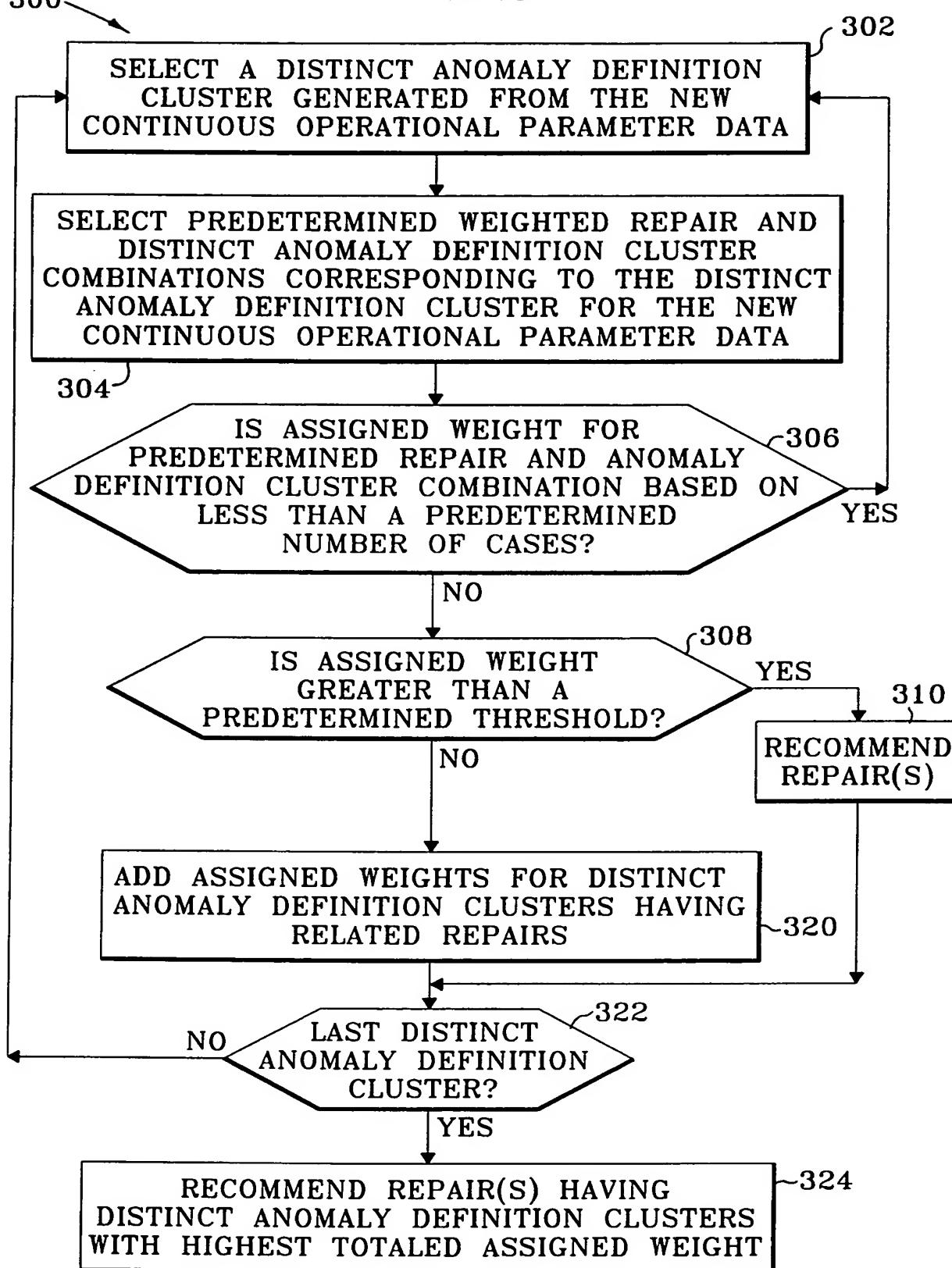


Fig. 9

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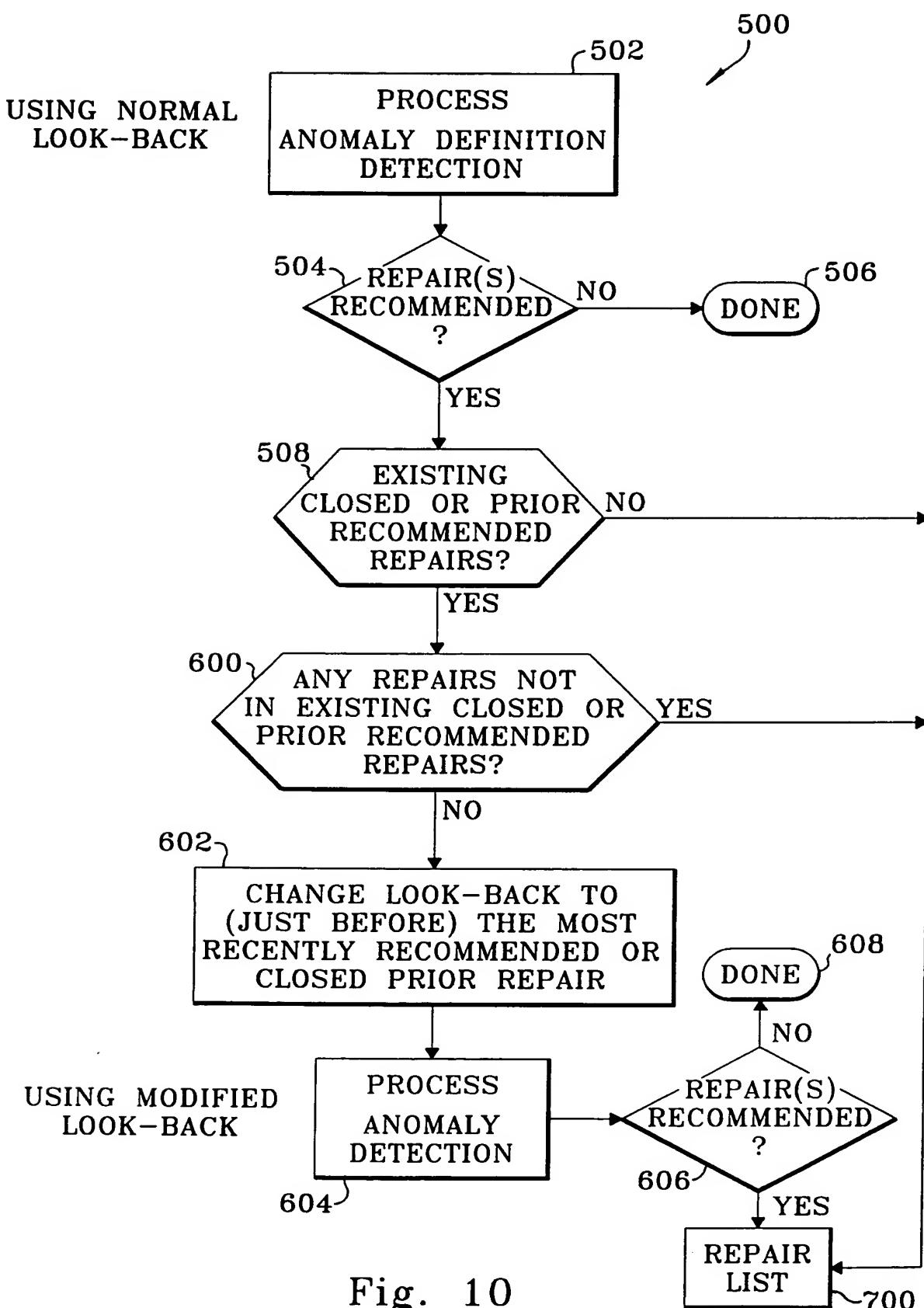


Fig. 10